L 29186-66

ACC NRI

AP6017846

0

inequalities

$$\int_{\tau}^{\infty} \left[\sum_{l=1}^{r} u_{l}^{2}(t) \right]^{1/2} dt < \mu(\tau), \tag{3}$$

$$\int_{\tau}^{\infty} \left[\sum_{i=1}^{I} v_{i}^{2}(i) \right]^{1/2} dt \ll v(\tau), \tag{4}$$

Constraints (3), (4) are considered as constraints on the impulses of control responses. Under the assumption that the pursued knows the coordinates $Y_i(\tau)$ and $Z_i(\tau)$ and the bounds $\mu(\tau)$ and $\nu(\tau)$ at every instant $t=\tau>0$ and the pursuer knows the values of $Y_i(\tau)$, $Z_i(\tau+0)$, $\mu(\tau)$, $\nu(\tau+0)$, and $\nu(\tau+0)$, but the next motion of the opponents is not known to either one, the control

$$u(\tau) = \xi^0(y(\tau), z(\tau+0), \mu(\tau), \nu(\tau+0), \nu(\tau+0)),$$

is sought which ensures an encounter of the two objects no matter what control

$$v(\tau) = \eta[y(\tau), z(\tau + 0), \mu(\tau), v(\tau + 0), v(\tau + 0)]$$

is chosen. It is considered that the control $u = \xi^{\circ}$ together with the control $v = \eta^{\circ}$ constitute a pair of optimal controls if: 1) at $Y = \xi^{\circ}$ and $v = \eta^{\circ}$, an en-

Card 2/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP8

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ounter of) in case he possib ynamic presses (1) o. 4, 196	Ov deviates from nilities of solving ogramming methods and (2) introduce 5]. The difficult	the defined pro and on the conce ed in the author' ties appearing he	place at a certain in takes place not later blem are discussed on pt of attainability dos article [Tekhnicheskie are indicated and tapproach to the solut Orig. art. has: 26 e	the basis of mains for pro- aya kibernetika, he means for ion of the pursuit
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EVT(d)/EVP(v)/EVP(k)/EVP(h)/EVP(1)43132-66 SOURCE CODE: UR/0376/65/001/012/1551/1556 ACC NRI AP6014166 AUTHOR: Krasovskiy, N. N. ORG: Sverdlovsk Section, Mathematical Institute im. V. A. Steklov (Sverdlovskoye otdeleniye, Matematicheskiy institut) TITLE: The observation of a linear dynamic system and equations with delayed arguments SOURCE: Differentsial nyye uravneniya, v. 1, no. 12, 1965, 1551-1556 TOPIC TAGS: linear differential equation, dynamic system, linear automatic control system ABSTRACT: The author discusses the connection between the problem of observation of a linear dynamical system and the problem of canonical representation of the motion describable by differential equations with time delay. The vector differential equation $\dot{x}(t) = Ax(t)$ (1)(with x an n-dimensional vector, and A-a(n x n) a constant matrix) describes a linear dynamic system and the quantity n(t) which is observed to be connected with the vector x(t) through $\eta(t) = p'x(t).$ (2)

Card 1/2

L 43132-66

ACC NR: AP8014166

0

where p is a constant n-vector. The results show that for any vector function x(t) representing a solution of Eq. (1), the function x(t) is the solution of equation

$$\dot{\eta}(l) = \sum_{i=1}^{m} a_i \eta(l-\tau_i). \tag{3}$$

where a_i are constants defined by $a_i = \gamma^\circ$ $(-\tau_i + 0) - \gamma^\circ$ $(-\tau_i - 0)$, γ° (3) is a sectionally constant function; and τ_i is the time delay. The inverse is generally not true. Orig. art. has: 33 formulas.

SUB CODE: 12,20/ SUBM DATE: 15Jun65/ ORIG REF: 005/ OTH REF: 001

Card 2/2 af

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210(

I. 1/1/170-00 EAT(d)/EAT(1) LIP(e) ACC NR. AP6010535 SOURCE CODE: UR/0376/66/002/003/02	299/0308
7.66 7.111 12.66 7.77	
AUTHORS: Krasovskiy, N. N.; Kurzhanskiy, A. B.	39 B
ORG: Ural State University (Ural'skiy gosudarstvennyy universitet)	
TITLE: Toward the question of the observability of systems with time delay	
SOURCE: Differentaial'nyye uravneniya, v. 2, no. 3, 1966, 299-308	
TOPIC TAGS: control system, control theory, differential equation, system analtime, time optimal control, dynamic system, COORDINATE SYSTEM	lysis,
ABSTRACT: A study is made of operations separating the unstable coordinates of Clinear second-order system with delay according to admissible observation of a combination of phase coordinates. The work is related to the class of problems controllability and observability of dynamic systems. The observation problem formulated for the system	on the
$\frac{dx_1}{dt} = a_{11}x_1(t) + a_{12}x_2(t) + b_{11}x_1(t-h) + b_{12}x_2(t-h),$	
1.0	· —
$\frac{dx_1}{dt} = a_{21}x_1(t) + a_{22}x_2(t) + b_{21}x_1(t-h) + b_{22}x_2(t-h),$	
with constant coefficients and a constant delay $h > 0$. The solution $(\bar{x}_1(t), x_2(t))$	2(t)7 of -
Card 1/2 UDC: 51'	7.949.22
	•

I. hh170-66 ACC NR: AP6010535	• 6
such a system for $t \ge t_0 = 0$ is determined by means of initial vector functions $\varphi(t) = \{\varphi_1(t), \varphi_2(t)\}$, given on the initial time interval $\{-1, 0, 0, 1, 1\}$ linear operation is defined in general terms, and it is shown that this type of operation can be useful in determining system observability along a coordinate or a linear combination of coordinates. The necessary condition is stated in the theorem: The system (1.1) is observable along the coordinate $y_1(t)$, $(i = 1,, k)$ in that case and only in that	a Salarania
case where $b_1d_1^{(i)} + b_2d_2^{(i)} \neq 0$. The numbers $d_1^{(i)}$ and $d_2^{(i)}$ are components of vectors $d_1^{(i)}$, which are solutions of the	
systems $(A+B\exp(-\lambda_i h)-\lambda_i E)d^{(i)}=0 (i=1,,k),$ and $\mathbf{y}_1(t)$ is a coordinate separated through application of the investigated operation. The necessity condition is proved and sufficiency follows from the proof given. Origart. has: 31 equations.	
SUB CODE: 12/ SUBM DATE: 31Jul65/ ORIG REF: 005	
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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

EWI(d) IJP(c) L 46558-66 SOURCE CODE: UR/0040/66/030/002/0209/0225 ACC NR. AP6012540 AUTHOR: Krasovskiy, N. N. (Sverdlovsk) ORG: none TITLE: Problem of pursuit in the case of linear single type objects SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 2, 1966, 209-225 TOPIC TAGS: control theory, control system, control optimization, minimax strategy ABSTRACT: The problem on the minimax of time T until the meeting of the pursuing motion y(t) and the pursued motion x(t) is studied. The two motions involved obey dy / dt = Ay + Bu, dz / dt = Az - Bv,the relationships where y, z are n-dimensional vectors of the phase coordinates of controlled objects; u, v are the r-vectors of control forces; A, B are constant matrices for the respective measures. This problem was stated by N. N. Krasovskiy, Yu. M. Repin, and V. Ye. Tret'yakov (O nekotorykh igrovykh situatsiyakh v teorii upravlyayemykh sistem. Izv. AN SSSR, Tekhnicheskaya kibernetika, 1965, No. 4). A simple rule is established for the case on finding u and v such that minu max, T = max, minu T with the condition y(T-T) = z(T-T) where T is the current moment in time. This rule is of Card 1/2

L 8429-65 Eff(d)/EFF(n)-2 Pg-li/Pk-4/P1-li/Pg-li/Pq-li/Pu-li IJF(c)/ASD(f)/ESD(dp)
WW/BC
ACCESSION NR: AP4043291 S/0040/64/028/004/0716/0724

AUTHOR: Krasovskiy, N. N. (Sverdlovsk)

TITLE: On the approximation of one problem of the analytic design of regulators in a system with a time lag

SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 4, 1964, 716-724

TOPIC TAGS: regulator design, time lag system, optimal control.

ABSTRACT: The problem of optimizing control by minimizing the standard error is studied in control systems described by the equation

$$\frac{dz}{dt} = Az(t) + Bz(t - \gamma) + bu, \qquad (1)$$

where x is an n-dimensional vector of phase coordinates, u is a scalar control action, y > 0 is a constant delay and A, B, and b are constant matrices. The optimal control n° in system (1) was deter-

Card 1/3

L 8429.65 ACCESSION NR: AP4043291

mined earlier by the author in the form of a linear functional containing functions at and Bi (Prikladnaya matematika i mekhanika, 1962, v. 26, no. 1). Since the process of determining at and Bi is complicated, the author proposes to approximate this problem by the analogous problem for the control system described by the ordinary differential equations

$$\frac{dy^{(i)}}{dt} + my^{(i)} = my^{(i-1)}$$

$$\frac{dy^{*}}{dt} = Ay^{*} + By^{(m)} + bu \quad (i = 1, ..., m)$$
(2)

where m is a positive integer, y and y(i) are n-dimensional vectors, and A. B. and b are the same matrices as in equation (1). The optimal control & for the control system (2) was derived in the form of a linear functional containing functions at (m) and Bi (u) by A. H. Letov (Avtomatika i telemekhanika, 1961, v. 22, no. 4) and E. E. Kalman (Proceedings Symposium of Ordinary Differential Equations,

Curd 2 / 3

L 8429-65 ACCESSION NR: AP4043291

Mexico City 1959; Bol. Soc. mat. Hexicana, 1960, v. 5). Functions of (m) and βι(m) can be calculated by integrating ordinary differential equations. The author first establishes the relation between the solution x(t) of (1) and the solution y*(t) of (2) when m ---- ile proves that the optimal motion you uniformly converges to the optimal motion x* for all initial values to <T and for all initial allowable control functions. On the basis of this fact it is also proved with Bellman's equation that the optimal control & converges to the optimal control of the convergence of solutions of an auxiliary problem to the solutions of the initial problem. Orig. arc. has: 41 formulas.

ASSOCIATION: none

SUBHITTED: 14Apr64 ATD PRESS: 3102

SUB CODE: MA, IE

NO REP SOV: 010

OTHER: 004

Card 3/3

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

ACC NR: AP6033208

SOURCE CODE: UR/0040/66/030/005/0938/0938

AUTHOR: Krasovskiy, N. N. (Sverdlovsk)

ORG: none

TITLE: Controlling a plant which is subject to aftereffect

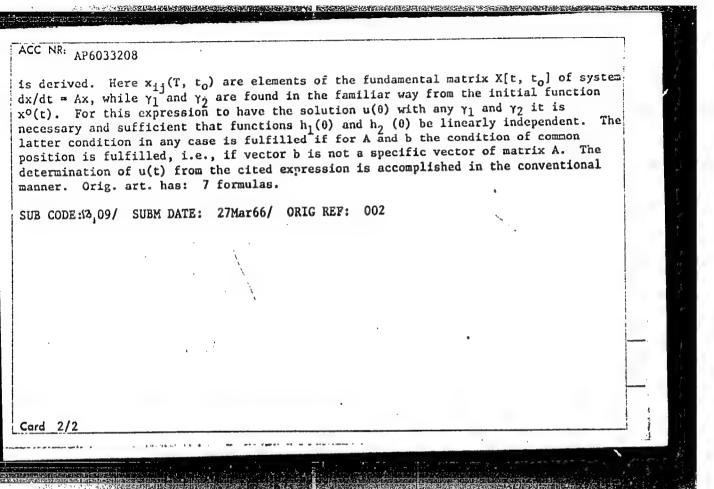
SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 5, 1966, 938

TOPIC TAGS: linear control system, automatic control parameter, feedback automatic control, mailhematic mailrix

ABSTRACT: This paper examines the problem of damping a linear system with the after-effect (lag) $\frac{dx(t)}{dt} = Ax(t) + Gx(t-\tau) + bu$, which is required to be transferred by control u = u(t) from a given initial state $x(t) = x^{0}(t)$ (- $\tau \le t \le 0$) into the equilibrium state $x(t) \equiv 0$ (T - $\tau \leqslant t \leqslant T$). The author studies the simplest case where x is a two-dimensional vector, u is a scalar, A and G are constant matrices, and b is a constant vector; in addition it is assumed that $T=3\tau$ ($\tau=const$). In this case the problem has an elementary solution. The most meaningful situation is the one where matrix G is nonsingular and vector b is not a specific vector of this matrix. Ultimately

 $h_1(0) = x_{11}(\tau, 0), \quad h_1(0) = g_{11} \int_{-1}^{1} e^{a_{11}(\tau-\zeta)} x_{11}(\zeta, 0) d\zeta + e^{a_{11}\tau} x_{11}(\tau, 0)$

Card 1/2



ISTOMIN, Pavel Aleksandrovich. Prinimal uchastaye ALFERNA, 100. kand. tekhn. nauk; NEBERIOV, V.I., doktor tekhn. colk, prof., retsenzent; NAYDERKO, O.K., kand. tekhn. nauk, dots., retsenzent; KKASOVSKIY, O.G., nauchn. red.; GOLUBEVA, H.P., red.; SHAURAK, Ye.E., red.

[Dynamics of marine internal communition entire.] Finemals sudovykh dvigatelei vnutrennego sgoranije. Usningrad, findostroenie, 1964. 287 p. (Mind 18:2)

Eransovskiy, O.P. [Krasovs'kyi, O.P.]

Brentrated dermoid cyst of the ovary. Ped., akush. i gin. 20 no.5159 58. (MIRA 13:1)

1. Kafedra fakul'tetskoy khirurgii Chernovetskogo meditsinskogo instituta. (OVARIES--TUMORS) (CYSTS)

KRASOVSKIY, P.N.

Glumow, G.A. and <u>Krasovskiy, P.N.</u> "The basic features of crossing species of trees in Troitsk National Forest," Part III, "A series of crossings in the sides and downward sloped habitations with black earths," Izvestiya Yestestv.-nauch. in-ta pri Molotvskom gos. un-ta im. Gor'kogo, Vol. XII, Issue 8, 1948, p. 327-49 - Bibliog: 13 items (Part I and II), Uchenyye zapiski Molotovskogo ros. un-ta, Vol. IV, Issue 2, 1945

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

- 1. GILMOV, G. A., MRASOVSKIY, P. N.
- 2. USSR (600)
- 4. Ural Mountain Region Birch
- 7. European white birch on saline soils of the southern trans-Ural region. Les i step!, 5, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl

USSR / Weeds and Weed Control

N

Abs Jour: Ref Zhur-Biol, 1958, No 17, 77934

Krasovskiy, P. N. Author

: Not given Inst

: Pigweed in Zaural (Ecological-Geographical Charac-Title

teristics).

Orig Pub: Izv. Yestestv.-nauchn. in-ta pri Molotovsk. un-te,

1956, 13, No 9, 147-163

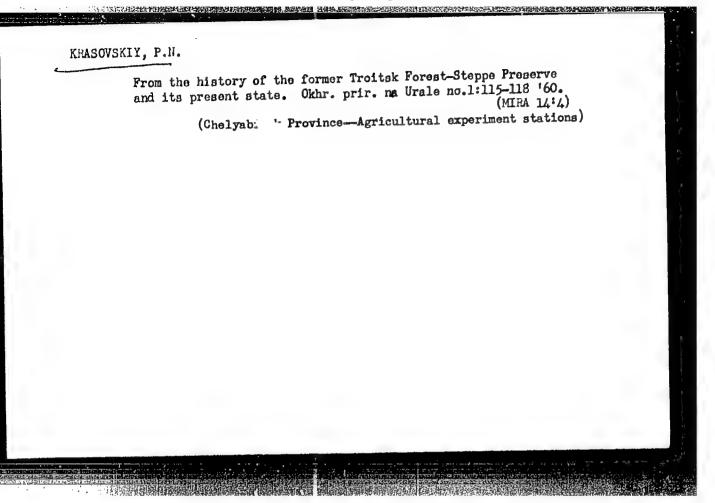
Abstract: Pigweed is a weed of gardens, melon fields, and

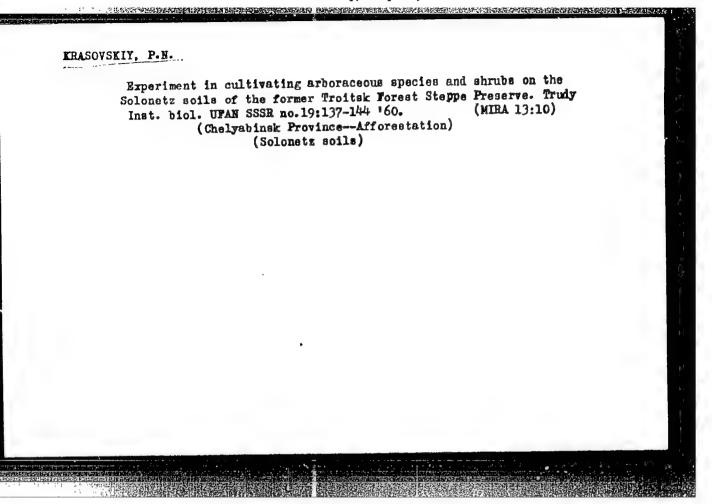
cultivated crops, as well as of grain sowings. It is most often met in crops that are planted late, as well as in broken seedings, and on badly-cultivated plowlands. Annual conditions promote the spread of the weed, as do its biological peculiarities: the abundant fertile

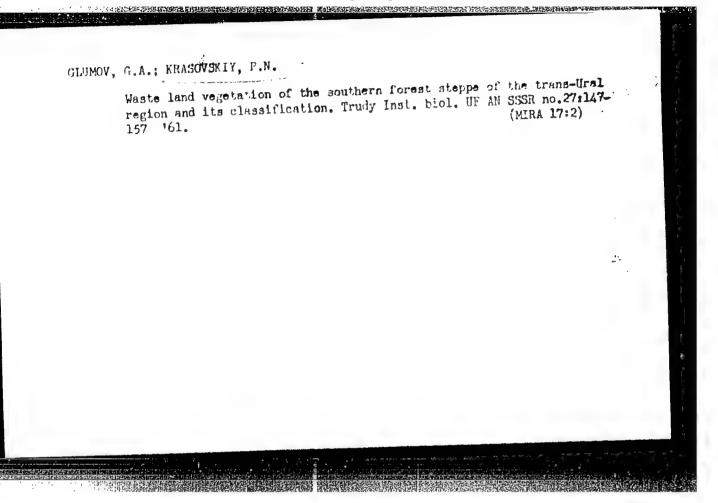
property of the seeds, preserved for a long time;

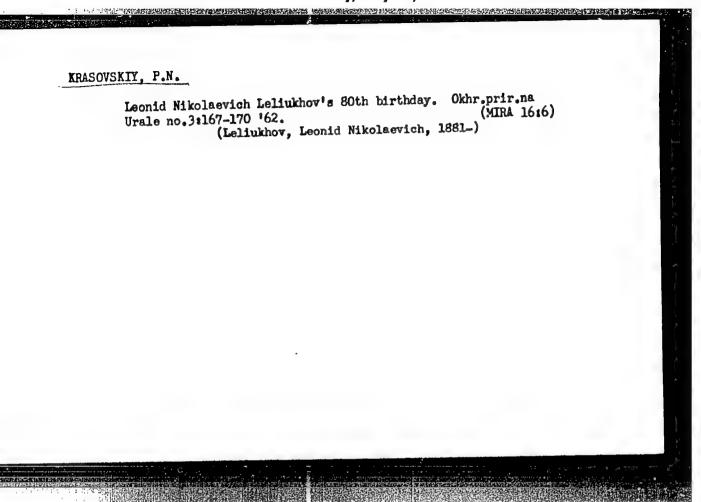
Card 1/2

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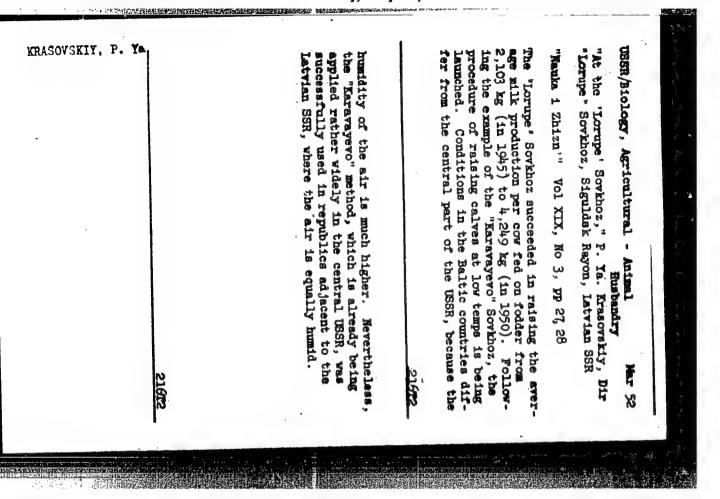








Characteristics of a channel with tropospheric propagation. Izv. vys.ucheb.zav.; radiotekh. 2 no.5:621-623 S-0 '59. (MIRA 13:5) 1. Rekomendovano kafedroy radiopriyemnykh ustroystv Leningradskogo elektrotekhnicheskogo instituta svyazi im.M.A. Bonch-Bruyevicha. (Information theory)



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CIA-RDP86-00513R000826210

(1036) -9t-9,9000

67856 SOV/142-2-5-11/19

AUTHOR:

Krasovskiy, R.R.

TITLE:

To the Problem of the Characteristics of a Channe!

With Tropospheric Scatterings

PERIODICAL: Izvestiya vysshikh uchebnykh bavedeniy, Rediotekhnika,

1959, Vol 2, Nr 5, pp 621 - 623 (USSR)

ABSTRACT:

The author plotted phase and amplitude characteristics of a channel with tropospheric scattering, using B. Jonsephon's and G. Carlson's /Ref 27 experimental data. The results confirm the correctness of his theoretical method of plotting such characteristics /Ref \pm 7 In a previous paper /Ref \pm 7, the author showed that, compared to the input signal, the signal at the channel output is modulated additionally by some random precesses. The distribution laws of these processes were

Card 1/4

selected by the author according to numerous experiments

To the Problem of the Characteristics of a Channel With Tropospheric Scattering

in the field of tropospheric scattering. He also determined regions of the energy spectrum and phase characteristics at the channel output. The amplitude and phase characteristics of a four-pole may be determined by

where S. $(j\omega)$, S2 $(j\omega)$ are the spectrums at the channel input and output. . or determining the desired charac-Card 2/4

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67856 SOV/142-2-5--11/19

To the Problem of the Characteristics of a Channel With Tropospheric Scattering

teristics it is necessary to obtain the spectrum of the signal having passed thru the channel to be investigated. A rectangular pulse of approximately 1 microsecond duration washsed for this purpose /Ref 27 The signal shapes at the channel input and output are shown in Figure 1. The pulses were subjected to spectrum analyses. Calculation data for pulse frequencies of 0-1000 kc are given in Table 1. Figure 2 shows the pulse spectrums at the channel input and output, Figure 3-the amplitude frequency characteristics, and Figure 4 shows the phase-frequency characteristics of the channel. The publication of this article was recommended by the Kafedra radiopriyemnykh ustroystv (Department of Radio Receivers) of the Leningradskiy elektrotekhnicheskiy institut svyazi imeni M.A. Bonch-Bruyevicha (Leningrad Electrical Engineering

Card 3/4

67056 COV/142-2-5-11/19

To the Problem of the Characteristics of a Channel With Tropospheric Scattering

Institute of Communications imeni M.A. Bonch-Bruyevich). There are 1 set of graphs, 3 graphs, 1 table and 2 reference, of which 1 is Soviet and 1 American.

March 25, 1959 SUBMITTED:

Card 4/4

KRASOVSKIY, R.R.

Signal reception with tropospheric scattering and multiple interference conditions. Izv. vys. ucheb. zav.; radiotekh. 2 no.6:694-698 N-D '59. (MIRA 13:6)

1. Rekomendovana kafedroy radipriyemnykh ustroystv
Leningradskogo elektrotekhnicheskogo instituta svyazi imeni
prof. M.A. Bonch-Bruyevicha.

(Radio--Interference)

9.9300

5/044/61/000/004/029/033 C111/C222

AUTHOR:

. .

Krasovskiy, R.R.

TITLE:

On the distortion of the signal for a tropospherical

scattering

PERIODICAL: Referativnyy zhurnal. Matematika. no. 4. 1961, 21.

abstract 4 V 198 ("Tr. Nauchno-tekhn. konfererts, heningr.

elektrotekhn. in-ta svyazi. Yyp. 3". L., 1959, 22-30;

TEXT:

The author determines the mean statistic amplitude and phase versus frequency response characteristics of a channel which used the tropospherical scattering. Therefore the correlation tunition and the spectral density of the function

$$\xi(t) = E(t) \cos \left[\omega_0 t + f(t) \right]$$

is calculated, where E(t) and $\varphi(t)$ are independent random processes with given probability characteristics, and ω_{α} is a lengtant-

Abstracter's note : Complete translation.

Card 1/1

6,9200

S/194/61/C00/001/032/038 D216/D304

AUTHOR:

Krasovskiy, R.R.

TITLE:

Signal reception at random changes of the channel

parameters

PERIODICAL:

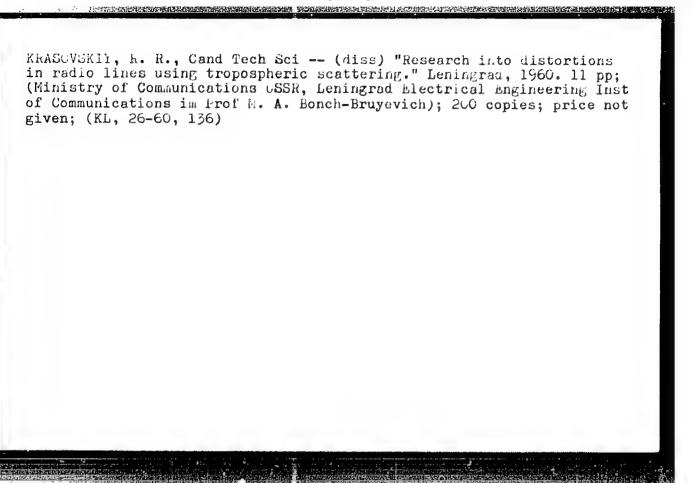
Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 13, abstract 1 Kl16 (Tr. Leningr. elek-

trotekhn. in-ta svyazi, 1959 (1960), no. 7 (44),

101-107)

TEXT: The correlation method has been used to evaluate the spectrum at the output of a linear and of a quadratic detector, where the input signal is of one polarity, modulated by a multi-channel communication and which had been transmitted through a channel undergoing random changes of its parameters. The obtained expressions for the LF-components spectra permit evaluation of the distortion of the signal which is transmitted through a channel with randomly varying parameters. 8 references.

Card 1/1



KRASOVSKIY, R. R.,

"Investigation of Distortions in Radio Lines Using Tropospheric Scattering"
Dissertation for the Degree of Candidate of Sciences, Leningrad Electrotechnic Inst.
of Communication im. M. A. Bonch-Bruyevich. Defense hedl on 23 June 1960.

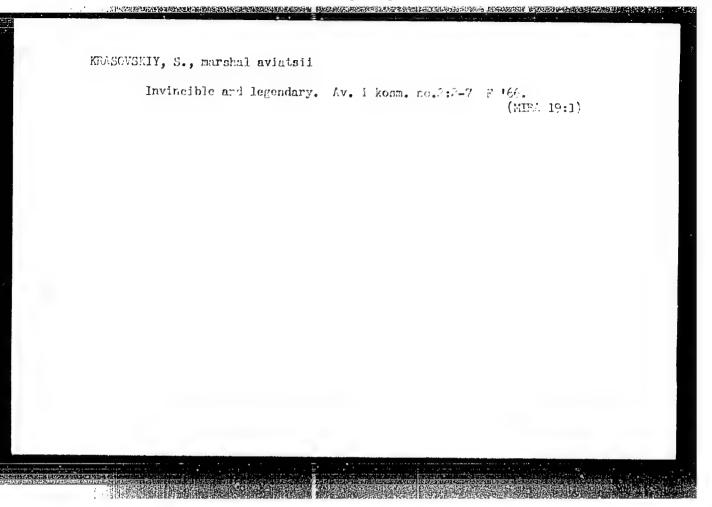
A statistical analysis was made of the characteristic of the channels and an analysis of signal distortion in a channel.

An estimate is presented of the distortion in the transimision of a single-bend signal with modulation by a broadband message, and an expression is obtained for the correlation function of the signal at the output of the detector.

Izv Vysshikh ucheb. zaved MViSSO SSSR po razdelu Radiotekhnika, vol. 6, No. 1, 1963, p. 98-102 (original checked--Cand. of Sciences as in original.)

MRASOVSKIY, S., marshal aviatsii, Geroy Sovetakogo Soyuza

During the Kursk battle. Kryl.rod. 14 no.7:18-20 J1 '63.
(MIRA 16:9)
(World War, 1939-1945--Aerial operations)



KRASOVSKIY, S.A.: KONEVKIN, I.I.: TATARCHEVSKIY, V.F., redaktor; KEL'NIK, V.P., redaktor; KOVALENKO, N.I., tekhnicheskiy redaktor.

[Rapid repair of open-hearth furnaces] Skorostnye remonty martenovskikh pechei. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 196 p. (MLRA 8:1)

(Open-hearth process)

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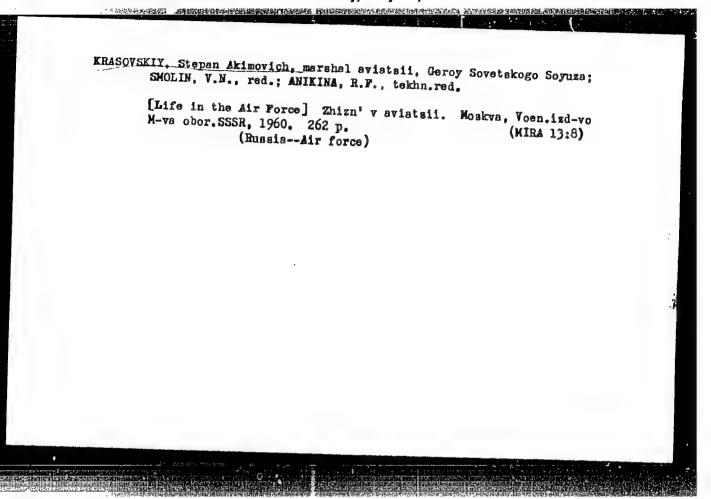
APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0008262100

**RASKOVSKIT, S.A., kand.geol.-mineral.nauk

"Heasurements of thermal conductivities of rocks by observations in boreholes" by A. Beck, J.C. Jaeger, Q. Mewstand. Reviewed by Kraskovskii. Izv. vys. ucheb. zav.; pri. no.1:134-135 '58.

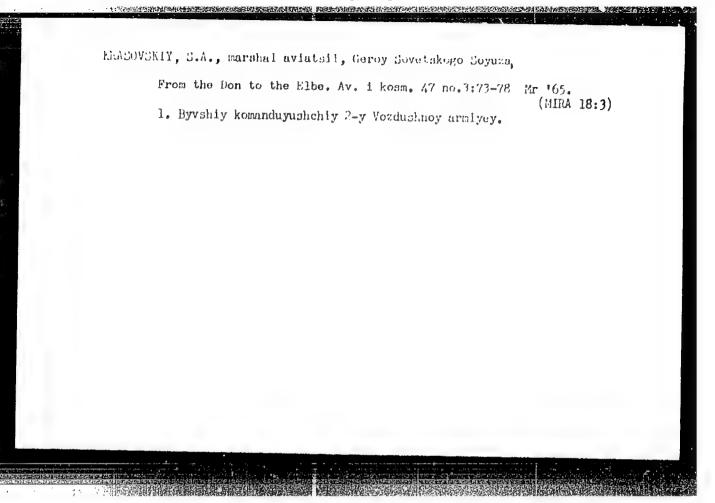
(Rocks) (Heat--Conduction--Measurements) (Beck, A.) (Jaeger, J.C.) (Newstand, Q.)



KRASOVSKIY, S.K.

Postembryonic development of the shull of the emperor penguin. Issl. fauny morel 2:387-427 164. (MIRA 17:10)

1. Zoologicheskiy institut AN SSSR.



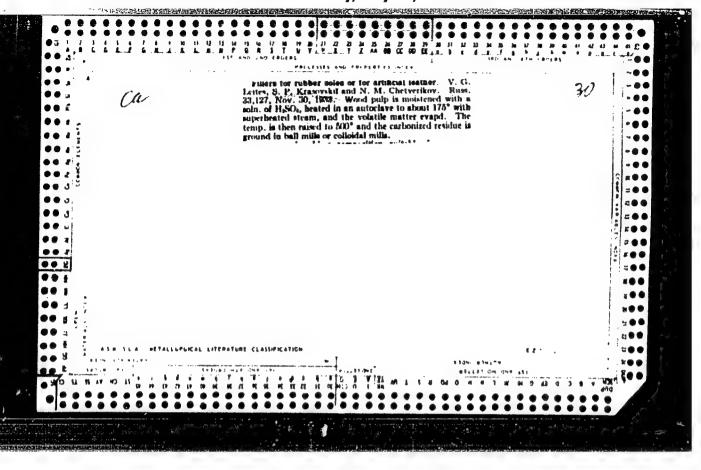
KCZLOVSKIY, V.A., inzh.; KRASOVSKIY, S.N., inzh.

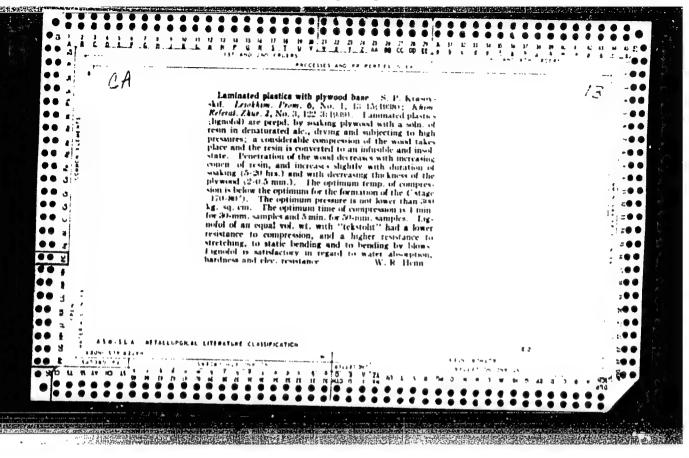
Laying of rail lengths without end cutting. Put 1 put.khoz. 9 no.5:6-12 165. (MIRA 18:5)

1. Nachal'nik putevoy mashinnoy stantsii No.75. stantsiya Gatchina, Oktyabr'skoy dorogi (for Kozlovskiy). 2. Stantsiya Gatchina, Oktyabr'skoy dorogi (for Krasovskiy).

"APPROVED FOR RELEASE: Monday, July 31, 2000

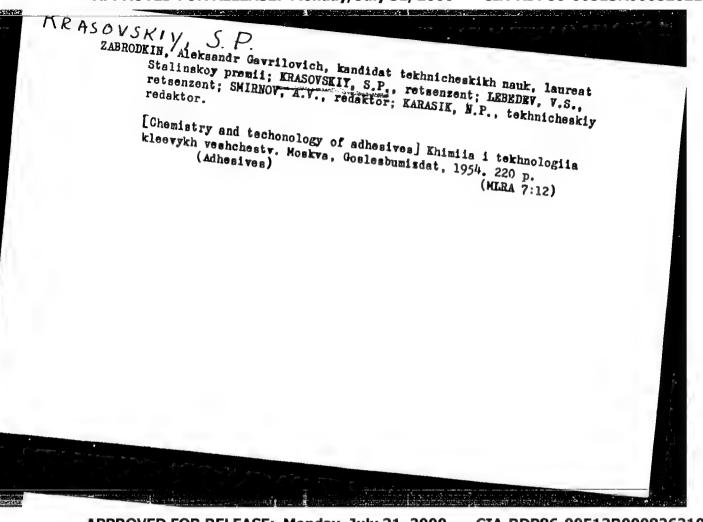
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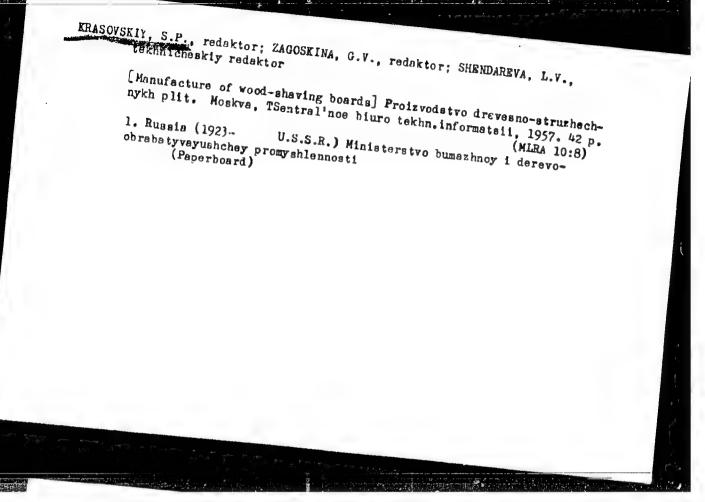


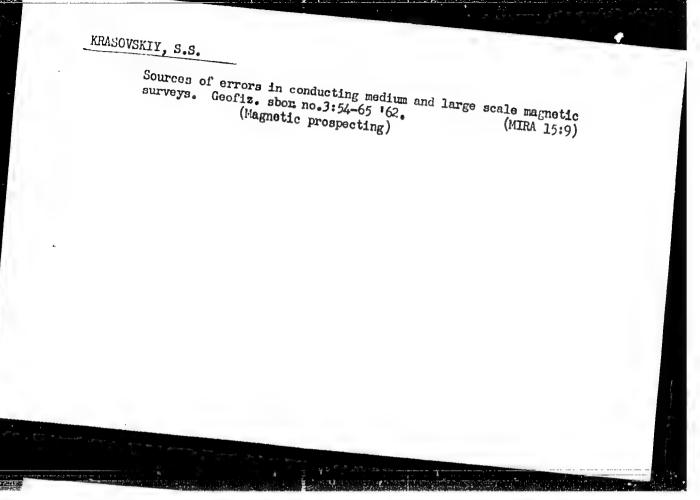


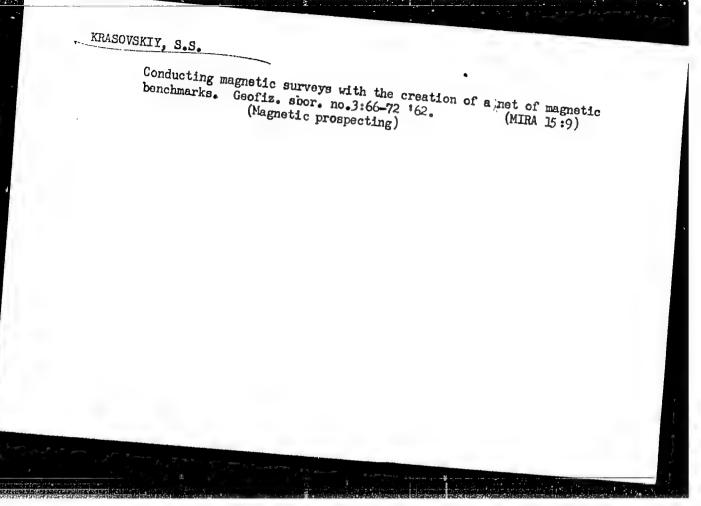
- 1. KRASOVSKIY, S. P., Engr.
- 2. USSR (600)
- 4. Plywood
- 7. Technology of plywood manufacture.
 Der. 1 losokhim. 1 No. 3, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

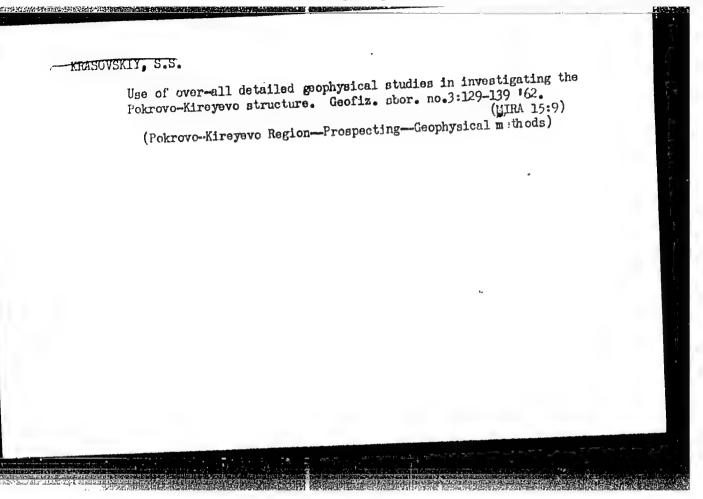


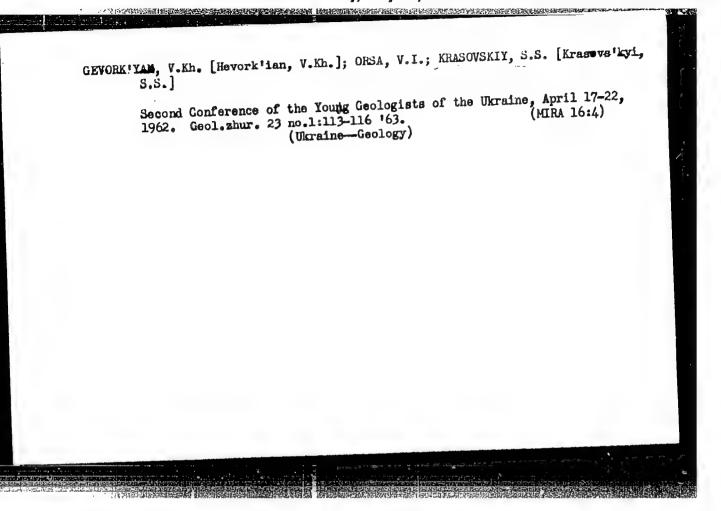






APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262100





KRASOVSKIY, S.S.; EUR'YANOV, V.B.

Magnetic field of two vertical strata. Geofiz. sbor. no.7:86-91
'64.*

(MIRA 17:11)

1. Institut geofiziki AN UkrSSR.

KRASOVSKIY, S.S.; BUR'YANOV, V.B.

Usability of certain nomograms in magnetometry. Geofiz. abor. no.7:
97-104 '64. (MIRA 17:11)

1. Institut geofiziki AN UkrSSR.

Criteria for the identification of transverse tectonic disturbances with a small shift using magnitometry. Geofiz. sbor. no.8:88-91 (MIRA 18:6) 1. Institut geofiziki AN Ukrassa.

THE PROPERTY OF THE PROPERTY O

KRASOVSKIY, Sergey Sergeyavich; SUBBOTIN, S.I., akademik, otv. red.; BYCHKOVA, R.I., red.; SHARAY, N.Ya., red.

[Methods of extending geophysical studies in geological mapping; as revealed by a study made in the Azov crystal-line massiv and its conjugated zone with the Donets Basin] Metodika kompleksirovaniia geofizicheskikh issledovanii pri geologicheskom kartirovanii; na primere Priazovskogo kristallicheskogo massiva i zony sochleneniia ego s Donbassom. Kiev, Naukova dumka, 1965. 142 p. (MIRA 18:12)

1. Akademiya nauk Ukr.SSR (for Subbotin).

L 02010-67 EWT(1) GW	
ACC NR, AM 6006730	
Monograph .	UR/
Krasovskiy, Sergey Sergeyevich	21
Methods of complexing geophysical studies in geological methods of complexing geophysical studies in geological methodical methodica	edovaniy pri geologicheskom o massiva i zony sochlene- 5. 0142 p. illus., biblio. titut geofiziki) 1,200
TOPIC TAGS: geology, geologic survey, prospecting, stratig survey, ground survey, geophysic research facility	graphic mapping, geographic
PURPOSE AND COVERAGE: On the basis of analysis of geophysical dies of Priazov parts of Ukrainian crystalline range and zerange and Donets Basin, the possibilities are being studied and methods for the solution of problems of mid scale geoleocition is made of rational system found in the connection of the problems. The mistakes made while surveying are being studied.	Ical and geological stu- cone of Priazov mountain and of different geophysi- cogical mapping. The on of physico-geological
ook is recommended for geophysicists, and geologists of retuines, for techers and students of higher courses at inst	
ard 1/2	
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ACC NR:4M6006730		0.
TABLE OF CONTENTS (abridge	d):	
Introduction3 Ch. I. Some problems of g	eophysical research during the mid-scale geolo	orical
mapping9 Ch. II. Complexing the geo Conclusion 00135 Bibliography139		
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BURMISTROV, S.I.; KRASOVSKIY, V.A.

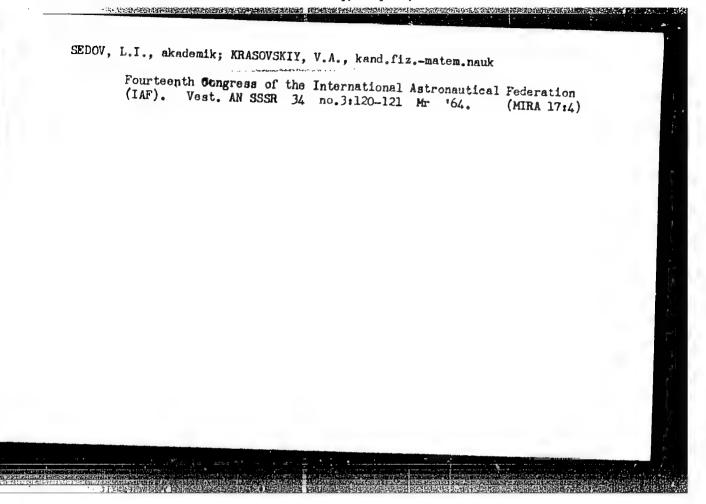
Alkylation of 2-amino-4-methylthiazole with secondary and tertiary alcohols. Zhur.ob.khim. 34 no.2:685-687 F '64. (MIRA 17:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

BURMISTROV, S.I.; KRASOVSKIY, V.A.

Alkylation of aminothiazoles. Part 3: Alkylation of 2-methylamino-4-methylthiozole. Zhur. org. khim. 1 no.1:183-185 Ja *65. (MIRA 18:5)

1. Dnepropetrovskiy khimikotekhnologicheskiy institut.



BURMISTROV, S.I.; KRASOVSKIY, V.A.

Alkylation of aminothiazoles. Part 2:Alkylation of 2-amino-thiazole. Zhur. ob. khim. 34 no.11:3822-3824 N *64 (MIRA 18:1)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

KOTLYARENKO, B.M., vrach; GLUSKER, M.S., vrach; TAMARKIN, I.D., vrach; KRASOVSKIY, V.A., vrach

Results of a house-to-house study of the population for goiter incidence. Zdrav. Bel. 7 no.9:63-64 S '61. (MIRA 14:10)

1. Iz Gomel'skogo oblastnogo protivozobnogo dispansera (for Kotlyarenko, Glusker, Tamarkin). 2. Respublikanskiy protivozobnyy dispanser, Belorussiya (for Krasovskiy).

(GOMEL' PROVINCE-GOITER)

DASHKEVICH, L.L.; SURAZHSKIY, D.Ya.; USOL'TSEV, V.A.; AZBEL', M.Ye.;
BOZHEVIKOV, S.N.; VORZHENEVSKIY, N.S.; MARUYLOV, K.N.;
GLAZOVA, Ye.F.; KARPUSHA, V.Ye.; PROTOPOFOV, N.G.; SHADRIKA,
Ye.N.; ICRUNOV, V.D.; NECHAYEV, I.N.; BESPALOV, D.P.;
ILLARIONOV, V.I.; GLEBOV, F.A.; GLAZOVA, Ye.F.; KAULIN, N.Ya.;
GOHYSHIN, V.I.; GAVRILOV, V.A.; TIMOFEYEV, M.P., retsenzent;
YEFREMYCHEV, V.I., retsenzent; KRASOVSKIY, V.B., retsenzent;
V'YUNNIK, A.P., retsenzent; STERNZAT, M.S., otv. red.;
RUSIN, N.P., otv. red.; YASNOGORODSKAYA, M.M., red.; VOLKOV,
N.V., tekhn. red.

[Instructions to hydrometeorological stations and posts] Nastavle-nie gidrometeorologicheskim stantsiiam i postam. Leningrad, Gidrometeoroizdat. No.3. Pt.3. [Meteorological instruments and observation methods used on a hydrometeorological network] Meteorologicheskie pribory i metody nabliudenii, primeniaemye na gidrometeorologicheskoi seti. 1962. 295 p. (MIRA 15:5)

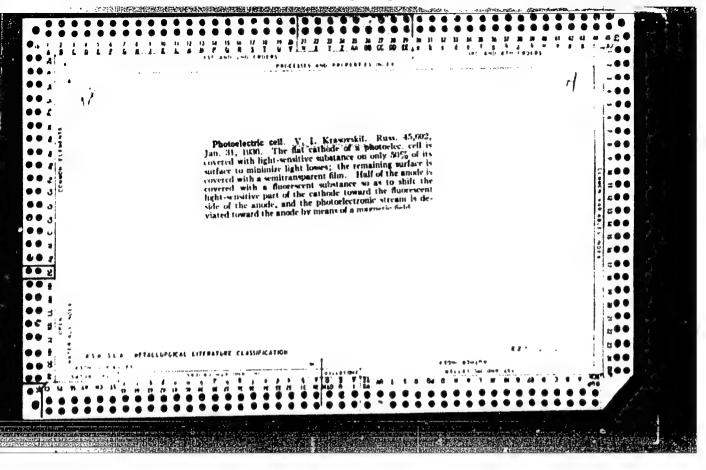
(Continued on next card)

DASHKEVICH, L.L.— (continued) Card 2.

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Glavnaya geofizicheskaya observatoriya
Nauchno-issledovatel skogo instituta gidrometeorologicheskikh
priborov i Gosudarstvennogo gidrologicheskogo instituta (for
Dashkevich, Surazhskiy, Usol'tsev, Azbel', Bozhevikov,
Vorzhenevskiy, Manuylov, Glazova, Karpusha, Protopopov, Shadrina,
Igrunov, Nechayev, Bespalov, Illarionov, Glebov, Glazova, Kaulin,
Gorysnin, Gavrilov). 3. Komissiya Glavnogo upravleniya gidroreteorologicheskoy sluzhby pri Sovete Ministrov SSSR (for Nechayev,
Usol'tsev, Timofeyev, Yefremychev, Krasovskiy, V'yunnik)
(Meteorology)

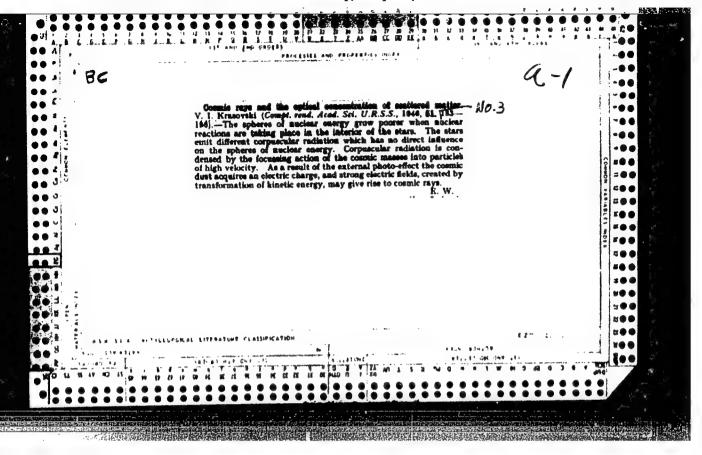
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"APPROVED FOR RELEASE: Monday, July 31, 2000

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KRASOVSKIY, V. I., NIKONOV, V. B. and KALINYAK, A. A.

Nablyudeniye oblasti galakticheskogo tsentra v infrakrasnykh luchakh (Observation of the Galactic Center Region in Infrared Rays). Akademiya Nauk SSSR. Doklady, 1949, v. 66, no. 1, p. 25-28, diagr., 6 refs.

AS262.S3663 v. 66

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

USSR/Physics
Radiation

"Nocturnal Radiation of the Sky in the Infrared Region of the Spectrum," V. I. Krasovskiy, 1½ pp

"Dok Ak Nauk SSSR" Vol LXVI, No 1, ρρ. 53-4

Cives results of photographing the spectrum of luminescence of the nocturnal sky with the aid of a spectrograph with two glass prisms and a dispersion of 7,000 angstroms with lambda = 10,000/11,000 angstrom/mm, and an electron-optical transformer. Submitted by A. A. Lebedev, 25 Jeb 49.

 $\nabla \nabla \sigma = \nabla / \Delta \nabla / J J$.

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Meteorological Abst. Vol. 5 No. 1 Jan. 1954 Part 1 Radiation and Temperature

Krasovskii. V. I., Novye izlucheniia nochnogo neba na uchaetke 8000-11,000 A. [New radiation of the night sky in a zone of 8000-1,000 A.] Akademiia Nauk, SSSR, Krymskala Astrofizicheska a Observatoriia, Izvestiia, 5:100-104, 1950. If igs., 5 refs. PLC-A three-prism spectrograph with linear dispersion of about 1200-2400 A on 1 mm was constructed for observations during 1950. These observations led to the discovery of six new lines for emission with wave length of 8670, 9391, 9976, 10, 217, 10, 374 and 10, 827 A. It was found that heavy emissions of night sky are present for many sections inside this range. Subject Heading:

Night sky spectrum. --N.T.Z.

Translation 563989

REALCONNEY, V.I.

"Nature of Entlation of the Night Say" Arasovskiy, V.I.

VAR, No 11, Nov 1950 pp 99

Fn 1c5T25 KRASOV KIY, V. I. 21 Feb 50 USSR/Geophysics - Wight Sky "New Facts on the Radiation of the Night Sky in the Region 8,800 to 11,000 Angstroms," V. I. Krasovskiy, Crimean Astrophys Obs, Acad Sci USSR "Dok Ak Nauk SSSR" Vol LXX, No 6, pp 999-1000 In 1949, Crimean Astrophys Obs in Simeyz obtained 12 more or less satisfactory photographs of spectrum of the night sky in range from 8,800 to 11,000 A. Employed special method of photography using electronic-optic transformer. Photographs revealed number of new lines, bands, or blends. Submitted 28 Nov 49 by Acad G. A. Shayn. 165T25

176T3

KRASOVSKIY, V. I.

USSR/Astronogy - Night Sky

1 Aug 50

"Nature of Infrared Radiation of Night Sky," V. I. Krasovskiy, Crimean Astrophys Obs, Acad Sci USSR

"Dok Ak Nauk SSER" Vol LXXIII, No 4, pp 679-682

Structure of subject radiation has finally been successfully observed. Obtained photograph of its spectrum up to 11,000 A. S. F. Rodionova has shown that energy of radiation near 10,000 A is twice that of green line 5,577 A of night-sky radiation. Graph shows intensity vs wave length. Concludes atomic nitrogen exists where there is still mol oxygen and consequently accomparies atomic oxygen in upper air. Submitted 27 May 50 by Acad G. A. Shayn.

176T3

MUNDOVONTI, V.I.

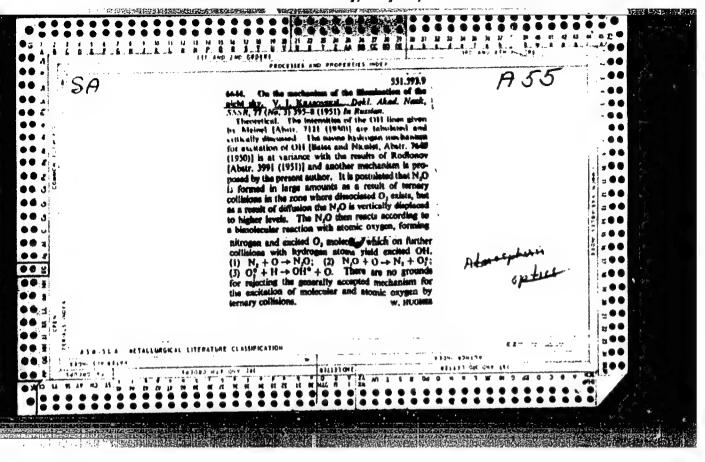
"Coservation of the Region of Galactic Center in Radiation (Emission) of about 10,000 Angstroms" Krasovskiy, 7.1. and A.A. Malinyak, and V.D. Nikonov.
SO: Izv. Krym Astr. Obs., No 6, 1951 pp 119.

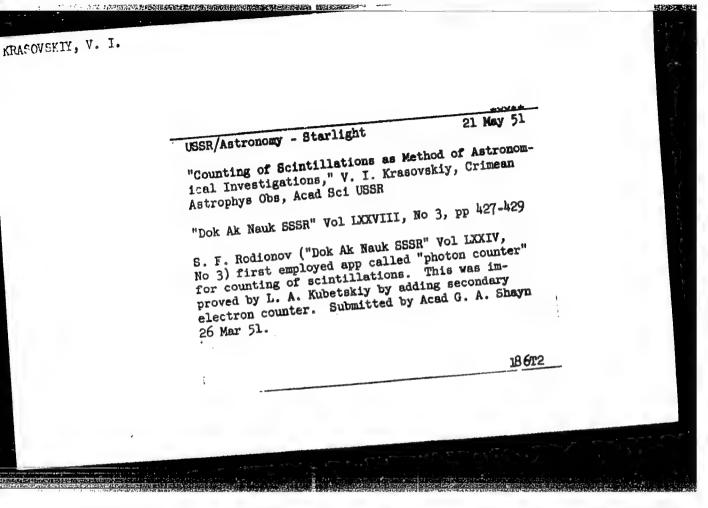
KRASOVSKIY, V. I.

LUKASHENIYA, V. T. and KRASOVSKIY, V. I.

"Details of the Night Sky Spectrum from 9500 A to 12,000 A," Dok Ak Nauk SSSR, 74, No 2, pp 241-44, 1951

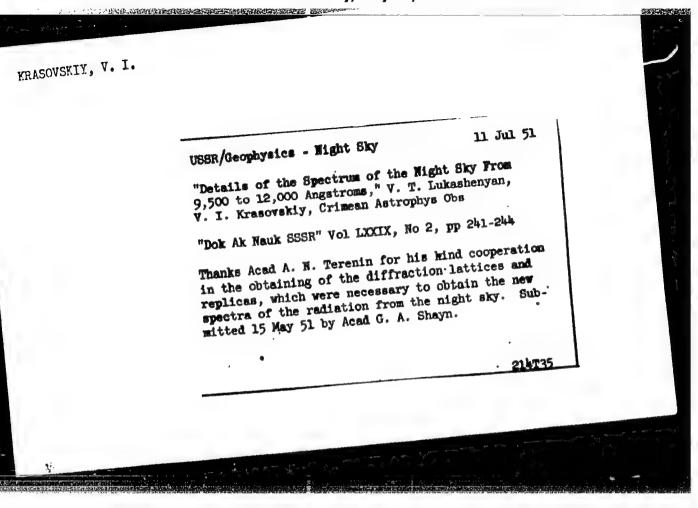
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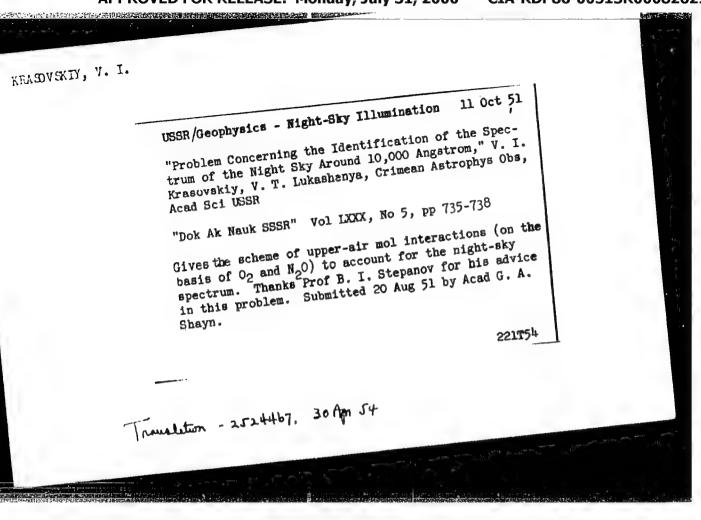




RRASCVSKIY, V. I.

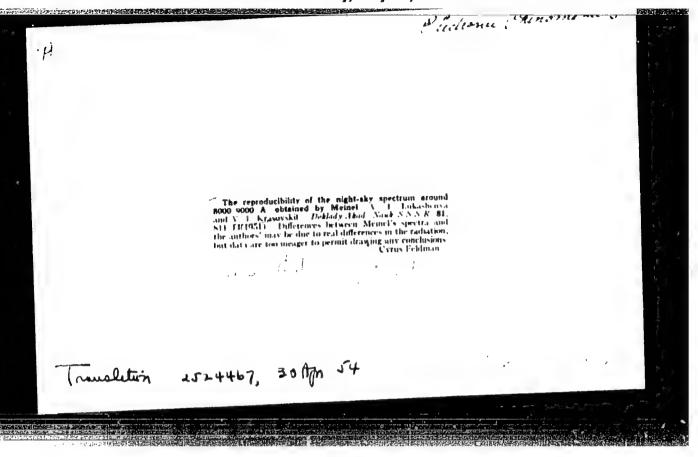
"The Effect of Water Vapors and Carbon and Nitrogen Oxides on Night-Sky Luninescence," presented to the Academy of Sciences of the USSR by Academician G. A. Shayn, 26 Mar 51. Published in Dok. Akad. Nauk SSSR, Vol. LAXVIII, No. 4, 1951, pp 669-672.





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- 1. KRASOVSKIY, V. I.
- 2. USSR (600)
- 4. Astrophysics
- 7. Investigation of infra-rad radiation of night sky. Usp. fiz. nauk. 47 no. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

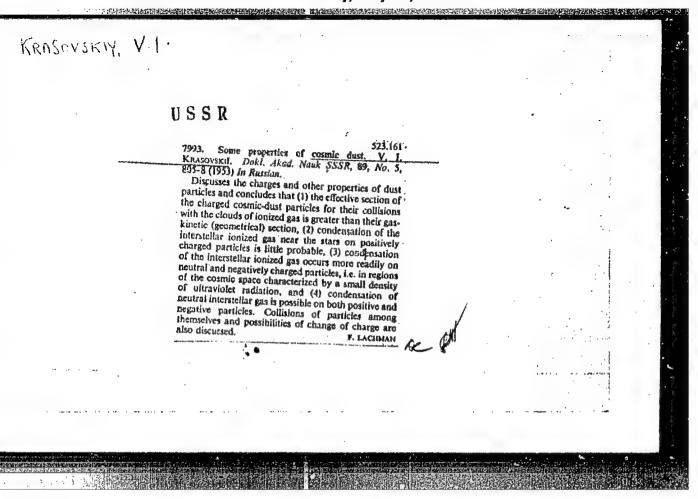
次// 中国中国企业的企业的企业的企业的企业中的企业的企业。

KRASOVSKIY, V. I.

"Infrared Radiation of the Night Sky and the Aurora Borealis." B. A. Bagaryatskiy, V. I. Krasovskiy, and M. I. Mordukhovich, Doklady Akad Nauk USSR 62: 579-580, No. 4 1952.

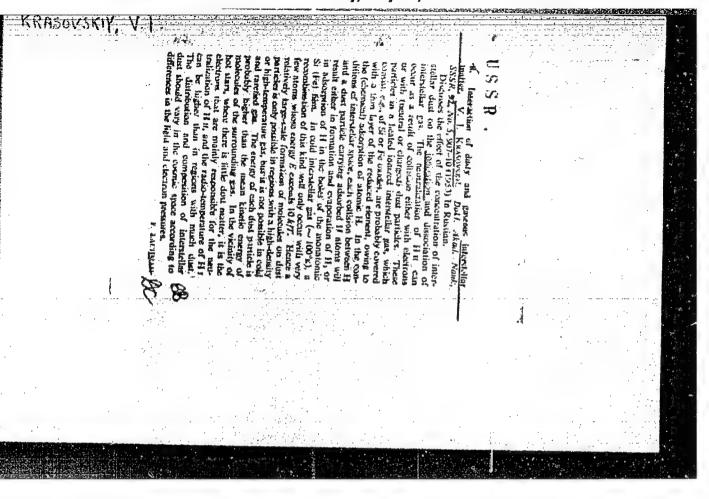
This paper is well written and seemingly original, with apparently reliable results. Bagaryatskiy and Mordukhovich are both new in this field, this being their first paper in the journal. Krasoviskih is well experienced in the field, having published five papers since the end of 1948.

Translition - 2524467, 30 Agn 54 B- 15105, 4 May 54



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CIA-RDP86-00513R000826210

KRASOVSKIY V. T. USSR/Physics - Infrared radiation

Card 1/1 Pub. 118 - 4/8

Authors

: Krasovskiy, V. I.

Title

: About infrared radiation of the night sky

Periodical : Usp. fiz. nauk 54/3, 469-494, Nov 1954

Abstract

: An analysis of the infrared radiation of the night sky is presented. Works of various scientists, who studied the infrared radiation of the night sky, are discussed and criticized. Spectra of infrared radiation taken at various altitudes show the existence of oxygen and hydrogen in the upper layers of the atmosphere. The author believes that infrared radiation of the night sky is closely connected with the recombination of oxygen atoms formed by the photo dissociation at day time into molecules. He also believes that hydrogen of the high atmosphere layers playes an essential role in the previously mentioned recombination of oxygen atoms into the molecules. Seventy references 28-USSR (1932-1953). Tables.

Institution:

Submitted

. USSR/ Geophysics - Upper atmosphere

Card 1/1 Pub. 22 - 25/63

Authors * Krasovskiy, V.I.

Title

Abstract

A STATE OF THE STA ! On the concentration of hydroxyl in the upper atmosphere

Periodical : Dok. AN SSSR 39/6, 979-981, Dec 21, 1954

The concentration of hydroxyl molecules responsible for the generation of oxygen (0) atoms in the upper atmosphere is discussed on the basis of experimentally observed hydrozyl absorption bands in the spectrum of radiating atmosphere. Theories and assumptions of various scientists (Bates, Nikolet, etc.), devoted to atmospheric study on the probable number of oxygen atoms (= 10") are taken into account. Fourteen ref-

erences; 7-USSR (1949-1954).

Institution: The Geophysical Institute of the Acad. of Scs. of the USSR

Presented by: Academician G.A. Gamburtsev, Fay 21, 1954

KRASOVSKIY, V. I.

"The Nature of Variations in Intensities of Emission in the Earth's Atmosphere," a paper presented at the 7th International Astrophysical Colloquium, Liege, 12-14 Jul

A brief analysis of the possible causes of variations in the intensity of night sky emission, originating as a result of a recombination of atoms into molecules in the upper atmosphere, is given.

SO: 568946

KRASOVSKIY, V.I., doktor fiziko-matematicheskikh nauk.

Sky brightness and auroras (from the International Geophysical Year program). Vest.AM SSSR 26 no.5:29-31 My '56. (MLRA 9:8)

(Auroras) (Sky, Golor of)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

D.

KRASCUSKIY, V. 1.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry.

Abs Jour

: Ref Zhur - Khimiya, No 9, 1957, 30338

Author

Krasovskiy, V.I.

Inst Title : Some Optical Manifestations of the Process of Oxigen

Recombing in Upper Atmosphere

Orig Pub

: Astron. zh., 1956, 33, No 4, 605-613

Abst

: Literature survey and data of the author show that the ozone-hydrogen hypothesis of hydroxylic radiation of nocturnal sky involves a number of difficulties. Verification of hypothesis by exact determination of altitude of radiating layer has not been carried out so far. In adhering to the oxygen-hydrogen hypothesis the author points out that at an altitude of 100 km concentration of excitated oxygen molecules of normal state from 4-th to 27-th vibrational level has been evaluated at 10 cm⁻³, which ensures the formation of about 2 . 1010

Card 1/2

USSR/Cosmochemistry - Geochemistry. Hycrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30338

hydroxyl molecules cm-2sec-1, even in the 1-km layer.

Charle 3/2

Card 2/2

KRHSOVIKIY, VI

PHASE I BOOK EXPLOITATION

496

Akademiya nauk SSSR. Komitet po geodezii i geofizike

Merhdunarolnaya assotsiatsiya geomagnetirma i aeronomii; terisy dokladov na XI Gereral'noy assambleye Merhdunarodnogo geodericheskogo i geofizicheskogo abyura (The International Association of Geomagnetism and Aeronomy; Abstracts of the Reports at the XI General Assembly of the International Union of Geolesy and Geophysics) Moscow, Izd-vo AN SSSR, 1957. 46 p. 1,500 copies printed.

PURPOSE: This booklet is intended for dissemination of abstracts of papers presented by the Soviet members of the International Association of Geomegnetism and Aeronomy at the XI General Assembly of the International Union of Geodesy and Geophysics.

COVERAGE: This booklet with full English translation following the Russian text presents abstracts of papers, mainly on magnetics, telluric currents and currence, presented by Soviet contributors at the XI General Assembly of the International Union of Geolesy and Geophysics. It was published by the National Committee for Geolesy and Geophysics of the Academy of Sciences of the USSR.

Card 1/9

The Externational Association (Cont.)

496

TABLE OF CONTENTS:

Keleshnikov, A. G., Petrova, G. N., Grabovskiy, M. A. Results of an Investigation of Magnetic Properties of Rocks and Geological Bodies

5

Recent laboratory investigations showed that ferromagnetic rocks are nonunitormly magnetized. Remanent magnetism though distributed regularly, does not follow the direction of the magnetizing field. The article evaluates stability and temperature influence on thermo-magnetization. In discussing the magnetic anisotropy the authors consider this property as typical for metamorphic rocks.

Krasovakiy, V. I. Investigations of Aurorae and Right Sky Glow in the USSR

11

The report contains latest data on radiation in the upper atmosphere. Hydroxyl radiation of night sky glow, twilight radiation of sodium and hydrogen emission in the maximum intensity zone of aurorae are discussed.

Cert 2/9

The International Association (Cont.)

496

Krasovskiy, V. I. The Nature of Radiation in the Upper Atmosphere.

13

Radiation at 100 km from the surface of the earth is connected with the dissiplication and formation of molecules. Variations of intensity of radiation are connected with temperature and pressure fluctuations in the upper atmosphere. Primary and secondary radiation of surorae and their nature are discussed. Secondary radiation can originate as a result of recombination processes, formation of an electric field, and chemical reactions of primary ions and excited products.

Shklovskiy, I. S. Elementary Processes in the Upper Atmosphere as Evidenced by Radiation

15

In addition to common fluorescence originating in the selective absorption of ultraviolet solar radiation by atoms in the atmosphere with subsequent re-radiation of "softer" quanta, processes of resonance fluorescence take place in the upper atmosphere. With the detection of some lines in a twilight spectrum an estimate can be made of the number of Lyman quanta in short wave radiation from the sun.

Card 3/9

KRASOVIKIY VI

PHASE I BOOK EXPLOITATION

338

Vtoroy sovetskiy iskusstvennyy sputnik Zemli; materialy, opublikovannyye v gazete "Pravda" (The Second Soviet Artificial Earth Satellite; Material Published in "Pravda") Moscow, Izd-vo "Pravda", 1957. 47 p. 100,000 copies printed.

PURPOSE: The booklet was written to give the public information on the second artificial earth satellite.

COVERAGE: The book consists of a number of articles on the second sputnik originally published in the Moscow newspaper "Pravda". Basic information on orbit, structure, equipment, performance, and utilization of the sputniks is given. All these data have been repeatedly published elsewhere; therefore, only a few figures are arbitrarily singled out here. The total weight of the scientific apparatus, test animal, and power supply sources of the second sputnik was 508.3 kg. The initial orbital velocity was about 8,000 m per second. The second sputnik circled

Card 1/#

he Second	Soviet Artificial Earth Satellite (Cont.)	
the ea operat The la French	arth initially in 103.7 minutes. Its radio transmitter sed on frequencies of 40.002 and 20.005 megacycles, etc ast article quotes admiring comments of American, Britin, and Chinese scientists, statesmen, and journalists.	sh,
Nov. The So	contents: t of TASS (Telegraph Agency of the USSR) ("Pravda", 4, 1957) econd Soviet Artificial Earth Satellite (6 figures), vda", Nov. 13, 1957) Orbit of the sputnik and its changes Observations of artificial earth satellites Structure of the second sputnik Scientific measurements made by the artificial earth satellite Short-wave radiation of the Sun	3 5 5 8 12 15 15
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	Study of biological phenomena under space flight conditions	21
	On the Observation of Artificial Earth Satellites ("Pravda", Nov. 11, 1957) The Upper Atmosphere and Its Investigation with the Aid of an Artificial Earth Satellite, by Y.I. Krasovskiy, Doctor	24
	of Physical and Mathematical Sciences ("Pravda", Oct. 10, 1957) Investigations of the Magnetic Pole of the Earth With the Aid of the Sputniks, by S. Dolginov, N. Pushkov, Candidates of Physical and Mathematical Sciences ("Pravda", Oct. 22, 1957) On the Way to the Conquest of Cosmic Space, by O. Gorlov, V. Yakovlev ("Pravda", Nov. 4, 1957) Biological investigations of flights in the upper layer the atmosphere	
Card	•	JL

KRASOYSKIY V.I.

AUTHOR: Krasovskiy, V. I.

49-4-9/23

TITLE:

On the effective coefficient of recombination in the ionosphere. (Ob effektivnom koeffitsiente rekombinatsii v ionosfere).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1957, No.4, pp. 504-511 (USSR)

ABSTRACT: It is shown that the exchange reaction 0⁺ with N₂ leads to the formation of the ions NO⁺ in the ionosphere. This explains the observed value of the effective coefficient of recombination which turns out to be inversely proportional to the density of electrons and the ionising radiation. Exchange reactions in which ions take part and recombinations of molecular ions are accompanied by the dissociation of molecular nitrogen. The layer F₂ may exist during the night because of the conservation² in the exosphere of electrons formed during the day in the lower layers, and the low value of the effective coefficient of recombination in this region. The coefficient of effective recombination may increase due to the effect of infrasound. It is concluded that since the coefficient of effective recombination depends on the

Card 1/2 electron concentration and the speed of formation of ions,

49-4-9/23

On the effective coefficient of recombination in the ionosphere. it cannot be assumed that the coefficient is constant in time or has directional symmetry properties. since at large electron concentrations the coefficient of effective recombination depends on the nature of the primary ions and may, therefore, change substantially, it cannot be assumed that, during ionisation of the upper atmosphere by the corpuscular emission of the Sun, by meteors, or as a result of gas discharge processes, the effective coefficient of recombination will be the same in this case as in the case of photo-ionisation. Photo-

ionisation is a more selective process than ionisation by the above three processes. There are 14 references, 2 of which are Slavic.

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49-5-11/18

The nature of changes in the intensity of emission of the AUTHOR: Krasovskiy, V. I. Earth's atmosphere. (Priroda izmeneniy intensivnosti emissiy TITLE:

PERIODICAL: "Izvestiya Akademii Nauk, Seriya Geofizicheskeya"

(Bulletin of the Ac.Sc., Geophysics Series), 1957, No.5, pp. 664-669 (U.S.S.R.)

ABSTRACT: This paper was read at the International Symposium at Liege on June 12, 1956. An arelysis is made of the influence on the emission of the Earth's atmosphere of the concentration on the emission of the Earth 5 atmosphere, the pressure, the of the initial products, the temperature, the pressure, the ultra-sonic waves from the troposphere, the solar activity and the intermixing in the atmosphere. Expressions are derived which allow an estimate to be made of the effect of thermal and tidal oscillations of the upper atmosphere on All chemical transformations which are responsible for the emission of the night-sky occur as a result of elementary chemical reactions at double or treble collisions of the molecules or atoms. The three component reactions are less sensitive to thermal and tidal oscillations of the upper atmosphere than the two-component reactions at activation energy. In the case of three-Card 1/4

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The nature of changes in the intensity of emission of the Earth's atmosphere. (Cont.)

component reactions large changes are only possible for appreciable changes in temperature and volume which in fact may not occur. If the hydroxyl emission is a result of an ozone-hydrogen reaction (the speed of which is determined by the values assumed by Bates and Nicolit in Ref. ?) then a ten-percent change in the temperature at 260 K will be accompanied by an approximately double fluctuation in the intensity of the hydroxyl emission. In the region of the temperature minimum, i.e. at a height of 80 km, it is assumed by Spenser and Dow (9) and Humphreys (8) that the temperature varies in the range 160 to 260 K. In this case a hundredfold change in the intensity of hydroxyl emission should occur but is apparently not observed. This shows that either the temperature changes are not present or that the hydroxyl emission originates outside this zone. If a decrease in temperature occurs in the upper atmosphere during the night then the emission connected with threecomponent reactions should increase. The opposite should be the case with two-component reactions at activation energy. Tidel effects may not be in phase with temperature changes and this may ensure a different behaviour of the intensity

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